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Erratum: Heavy fields and gravity

Garrett Goon

Institute of Physics, Universiteit van Amsterdam,
Science Park 904, Amsterdam, 1090 GL, The Netherlands

E-mail: G.L.Goon@uva.nl

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In the published version of this manuscript, the values of $\beta(a_1)$ and $\beta(a_2)$ in (3.20) were incorrect, as the results of the one-loop calculation were mistakenly matched to $\mathcal{L}^{\partial^4}_{\rm EFT} = a_1 R^2 + a_2 R^2_{\mu\nu} + a_{\rm GB} R^2_{\mu\nu\rho\sigma}$, rather than $\mathcal{L}^{\partial^4}_{\rm EFT} = a_1 R^2 + a_2 R^2_{\mu\nu} + a_{\rm GB}\mathcal{L}_{\rm GB}$ with $\mathcal{L}_{\rm GB}$ given by

$$\mathcal{L}_{\rm GB} \equiv R^2 - 4R_{\mu\nu}R^{\mu\nu} + R_{\mu\nu\rho\sigma}R^{\mu\nu\rho\sigma}\,,$$

as in (2.4) of the draft. This error had no effect on the conclusions of this paper.

The corrected table should read:

Matter	$\beta(\Lambda)$	$\beta(M_p^2)$	$\beta(a_1)$	$\beta(a_2)$	$\beta(a_{\rm GB})$
Scalar	$\frac{m^4}{2(4\pi)^2}$	$\frac{m^2}{3(4\pi)^2}$	$-\frac{1}{120(4\pi)^2}$	$-\frac{1}{60(4\pi)^2}$	$-\frac{1}{180(4\pi)^2}$
Fermion	$-\frac{2m^4}{(4\pi)^2}$	$\frac{2}{3}\frac{m^2}{(4\pi)^2}$	$\frac{1}{30(4\pi)^2}$	$-\frac{1}{10(4\pi)^2}$	$-\frac{7}{360(4\pi)^2}$
Vector	$\frac{3}{2}\frac{m^4}{(4\pi)^2}$	$-\frac{m^2}{(4\pi)^2}$	$\frac{7}{120(4\pi)^2}$	$-\frac{13}{60(4\pi)^2}$	$\frac{1}{15(4\pi)^2}$

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